

REMARKS

Claims 1-17 are all the claims pending in the application.

The Specification is objected to by the Examiner. Claims 11 and 13 are objected.

Claims 1-11 and 14-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Vardi (U.S. Patent No. 6,831,632).

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vardi in view of Williams (U.S. Patent No. 6,956,564).

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Vardi in view of Schiller et al (U.S. Patent No. 6,577,299).

Claim rejections under 35 U.S.C. § 102

Rejection of claims 1-11 and 14-17 under 35 U.S.C. 102(e) based on Vardi

Fig. 5 of Vardi is a block diagram of an apparatus for performing functions of the embodiments shown in Figs. 1 through 4. As shown in Fig. 1, Vardi discloses, perceiving written contents and displaying. In Fig. 2, three-dimension tracking output is calculated by tracking a hand motion. The structures of Figs. 1 and 2 do not require any communication means.

Figs. 3A and 3B of Vardi show an example where the perceived hand motion is transmitted to the correspondent node through the Internet or telephone network. Fig. 4 shows an example further including a function of calling the phone number, when a phone number is perceived by tracking the hand motion. In Figs. 1 through 4, predetermined operations are performed directly using the perceived hand motion.

On the other hand, in the present invention as recited in Claims 1 and 14, a command code corresponding to perceived motion information (for example, the hand motion of Vardi) is transmitted to another device (that is, the controlled device). In the present invention, a process for searching whether a command code corresponding to the perceived motion information is required. Specifically, the present invention requires searching whether the perceived motion information corresponds to preset motion information.

However, Vardi does not disclose the above feature. Importantly, Vardi does not require such a feature. This is because the perceived hand motion is directly displayed or transmitted to the external, or phone connection is performed according to the perceived hand motion.

For example, when moved in the “0” form in Vardi the motion is perceived directly as “0”, accordingly displaying “0”, externally transmitting the number “0”, or calling the whole phone number by perceiving “0” as one of the whole phone number. According to the present invention, however, a motion corresponding to “0” is searched first. If the motion corresponding to “0” is stored, a command code corresponding to “0” is output. If not, no operations are performed.

The present invention, as recited in claims 1 and 14, is not anticipated by Vardi at least for the above reasons.

Further, according to the present invention (as recited in claims 1 and 14, as amended) motion information and a corresponding command code are stored in the data storage unit. Vardi does not disclose data types to be stored in an application and output memory 548. The Applicants respectfully submit that the “application and output memory 548” would store a

certain application and an output resulting from performing the application. Vardi further discusses the dictionary database 556 (line 4, paragraph 1, column 11). The Applicants respectfully submit that Vardi does not disclose (or suggest) that the dictionary data base 556 stores the motion information and the corresponding command code. Accordingly, the data storage unit of Claim 1 (and amended claim 14) of the present invention is believed to be different from the memory 548 or the dictionary database 556.

The Examiner appears to be contending that the transmission unit of the present invention corresponds to the communication and I/O unit 546 of Vardi. The transmission unit of the present invention is adapted to transmit the remote control signal to the controlled device. The communication and I/O unit 546 of Vardi, on the other hand, realizes the embodiments shown in Figs. 3A, 3B and 4. Therefore, the communication and I/O unit 546 of Vardi is not believe to include a function of transmitting the remote control signal for directly controlling the controlled device within a short distance therefrom. Vardi asserts in line 2, paragraph 3, column 11 that infra-red port can be handled. However, this would not imply that the embodiment of D1 functions the same as a remote controller. Therefore, the transmission unit of the present invention does not correspond to the communication and I/O unit 546 of D1.

Claims 2-11 and 16-17 depend on claims 1 and 14, respectively. Therefore, they are patentable at least for the same reasons.

Further, according to Claim 4, when performing the motion for selecting a specific controlled device, the apparatus is converted to a mode for selecting the controlled device, and when a predetermined motion is performed under the mode, a specific command code is

transmitted to the corresponding controlled device. As mentioned above, Vardi does not disclose operations concerning the motion for selecting the controlled device.

Claim rejections under 35 U.S.C. § 103

Rejection of claim 12 under 35 U.S.C. 103(a) based on Vardi in view of Williams

Claim 12 is dependent on claim 1, and is allowable at least for the same reasons. Further Williams does not overcome the deficiencies noted above in relation to claim 1.

Specifically, Williams is related to a portable computer displaying information as a perceived motion. However, Williams does not include a structure corresponding to the transmission unit of the present invention, which transmits the command code corresponding to each motion to another controlled device.

Rejection of claim 13 under 35 U.S.C. 103(a) based on Vardi in view of Schiller et al.

Claim 13 is dependent on claim 1, and is allowable at least for the same reasons. Further Schiller does not overcome the deficiencies noted above in relation to claim 1.

Further, Schiller does not suggest detecting relative motion changes using distance changes between a cap and a pen.

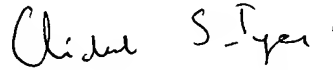
In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

AMENDMENT UNDER 37 C.F.R. § 1.111
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Respectfully submitted,



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